



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center
122 S. Front Street
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

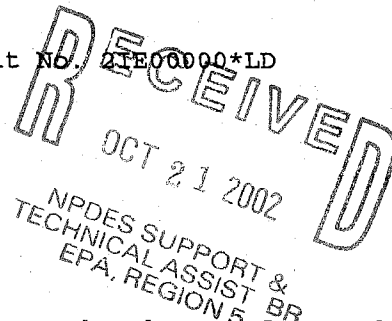
MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

October 9, 2002

Re: Ohio EPA Permit NO. 2IE000000*LD

Brush Wellman Inc.
14710 West Portage River South Road
Elmore, Ohio 43416



Ladies and Gentlemen:

We propose to make to following minor modifications to the above referenced permit.

<u>Page</u>	<u>Correction</u>
4	Change Maximum Limits from "16" to "42" for reporting code 01079-Total Recoverable Silver in Interim Table for outfall 2IE00000002.
5	Change "the discharge from this outfall" to "the total discharge from outfalls 2IE00000002 and 2IE00000004".
13	Change Sampling Type for reporting code 00550-Total Oil & Grease from "24hr Composite" to "Grab" in Interim table for outfall 2IE00000001.
16	Change "the discharge from this outfall" to "the total discharge from outfalls 2IE00000002 and 2IE00000004".
18	Change "the discharge from this outfall" to "the total discharge from outfalls 2IE00000002 and 2IE00000004".
25	Change Sampling Type for reporting code 00550-Total Oil & Grease from "24hr Composite" to "Grab" in Interim table for outfall 2IE00000001.
28	Change "the discharge from this outfall" to "the total discharge from outfalls 2IE00000002 and 2IE00000004".
29	Change Measuring Frequency from "1/Week" to "1/Day" in Tier 1 table for outfall 2IE00000099.
31	Change Measuring Frequency from "1/Week" to "1/Day" in Tier 2 table for outfall 2IE00000099.
35	Change Measuring Frequency from "1/Week" to "1/Day" in Tier 4 table for outfall 2IE00000099.
43	Change wording in notes section for outfall 2IE00000802.
47	Part II, Item A. Delete "through outfall 2IE00000011" in description for outfall 2IE00000602.

Bob Taft, Governor
Maureen O'Connor, Lieutenant Governor
Christopher Jones, Director

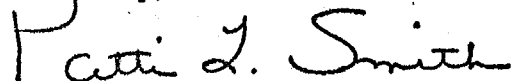
Brush Wellman, Inc.

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If you consent to these changes, please sign below and incorporate the corrected pages into your permit. The proposed minor modifications will become effective on the date we receive this signed letter from you at the following address: Ohio Environmental Protection Agency, Division of Surface Water, Permit Administration Section, P. O. Box 1049, Columbus, Ohio 43266-0149.

Sincerely,



Patti L. Smith, Supervisor
Permit Processing Unit
Division of Surface Water

PLS/dks

Enclosure

CERTIFIED MAIL

I consent to the minor modification.

Name

Title

Date

Part I, A. - INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning on the effective date of this permit and lasting 48 months, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 2IE00000002. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 002 - Interim

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.5	6.5	-	-	-	-	-	1/Month	Grab	All
00515 - Residue, Total Dissolved - mg/l	21560	-	-	-	-	-	-	1/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	41	-	-	-	-	-	-	1/Week	24hr Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	133	-	-	-	-	-	-	1/Week	24hr Composite	All
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00720 - Cyanide, Total - mg/l	0.20	-	-	-	-	-	-	1/Month	24hr Composite	All
00951 - Fluoride, Total (F) - mg/l	35	-	-	-	-	-	-	1/Week	24hr Composite	All
00998 - Beryllium, Total Recoverable - ug/l	801	-	-	-	-	-	-	1/Week	24hr Composite	All
01032 - Chromium, Hexavalent (Cr +6) - ug/l	17	-	-	-	-	-	-	1/Week	24hr Composite	All
01034 - Chromium, Total (Cr) - ug/l	46	-	-	-	-	-	-	1/Week	24hr Composite	All
01074 - Nickel, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01079 - Silver, Total Recoverable - ug/l	42	-	-	-	-	-	-	1/Week	24hr Composite	All
01113 - Cadmium, Total Recoverable - ug/l	26	-	-	-	-	-	-	1/Month	24hr Composite	All
01119 - Copper, Total Recoverable - ug/l	243	-	-	-	-	-	-	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	1/Day	24hr Composite	All
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	1/Day	24hr Composite	All

In addition to the limits listed above, the total discharge from outfalls 2IE000000002 and 2IE000000014 shall also meet the annual loading limits listed below:

Parameter	Maximum Annual Load (kg/year)
Total Suspended Solids	300
Ammonia-nitrogen	900
Cyanide, total	1.23
Fluoride	306
Beryllium	5.68
Chromium	2.30
Copper	9.37

Notes for Station Number 2IE000000002:

Sampling shall be performed when discharging. If NO DISCHARGE OCCURS DURING THE ENTIRE MONTH, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.

See Part II, Item F.

Acute toxicity: See Part II, Item K. For days when toxicity monitoring is not required, report 'AH' on the Monthly Operating Report and explain in the comments.

Copper: See Schedule of Compliance, Item 2.

Part I, A. - INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

10. During the period beginning on the effective date of this permit and lasting 48 months, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 2IE00000011. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 011 - Interim

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.5	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	15881	-	-	13477	-	-	-	1/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	45	-	-	30	-	-	-	1/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	20	-	-	12	-	-	-	1/Week	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	13	-	-	-	-	-	-	1/Week	24hr Composite	All
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00900 - Hardness, Total (CaCO3) - mg/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox2
00951 - Fluoride, Total (F) - mg/l	16	-	-	-	-	-	-	1/Week	24hr Composite	All
00998 - Beryllium, Total Recoverable - ug/l	102	-	-	-	-	-	-	1/Week	24hr Composite	All
01032 - Chromium, Hexavalent (Cr +6) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01034 - Chromium, Total (Cr) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01074 - Nickel, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01079 - Silver, Total Recoverable - ug/l	50	-	-	-	-	-	-	1/Week	24hr Composite	All
01113 - Cadmium, Total Recoverable - ug/l	26	-	-	-	-	-	-	1/Week	24hr Composite	All
01119 - Copper, Total Recoverable - ug/l	416	-	-	-	-	-	-	1/Week	24hr Composite	All
31616 - Fecal Coliform - #/100 ml	2000	-	-	1000	-	-	-	1/Month	Grab	Summer
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

In addition to the limits listed above, the total discharge from outfalls 2IE00000002 and 2IE00000014 shall also meet the annual loading limits listed below:

Parameter	Maximum Annual Load (kg/year)
Total Suspended Solids	300
Ammonia-nitrogen	900
Cyanide, total	1.23
Fluoride	306
Beryllium	5.68
Chromium	2.30
Copper	9.37

Notes for Station Number 2IE00000014:

Sampling shall be performed when discharging. If NO DISCHARGE OCCURS DURING THE ENTIRE MONTH, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.

See Part II, Item F.

Acute Toxicity: See Part II, Item K. For days when toxicity monitoring is not required, report 'AH' on the Monthly Operating Report and explain in the comments.

Copper: See Schedule of Compliance, Item 2.

In addition to the limits listed above, the total discharge from outfalls 2IE00000002 and 2IE00000014 shall also meet the annual loading limits listed below:

Parameter	Maximum Annual Load (kg/year)
Total Suspended Solids	300
Ammonia-nitrogen	900
Cyanide, total	1.23
Fluoride	306
Beryllium	5.68
Chromium	2.30
Copper	9.37

Notes for Station Number 002:

Sampling shall be performed when discharging. If NO DISCHARGE OCCURS DURING THE ENTIRE MONTH, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.

See Part II, Item F.

Acute toxicity: See Part II, Item K. For days when toxicity monitoring is not required, report 'AH' on the Monthly Operating Report and explain in the comments.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

19. During the period beginning 48 months from the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 2IE00000011. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 011 - Final

Effluent Characteristic	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring	Sampling	Monitoring
Parameter	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly	Frequency	Type	Months
00400 - pH - S.U.	9.5	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	15881	-	-	13477	-	-	-	1/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	45	-	-	30	-	-	-	1/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	20	-	-	12	-	-	-	1/Week	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	13	-	-	-	-	-	-	1/Week	24hr Composite	All
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00900 - Hardness, Total (CaCO3) - mg/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox2
00951 - Fluoride, Total (F) - mg/l	16	-	-	-	-	-	-	1/Week	24hr Composite	All
00998 - Beryllium, Total Recoverable - ug/l	102	-	-	-	-	-	-	1/Week	24hr Composite	All
01032 - Chromium, Hexavalent (Cr +6) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01034 - Chromium, Total (Cr) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01074 - Nickel, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01079 - Silver, Total Recoverable - ug/l	35	-	-	-	-	-	-	1/Week	24hr Composite	All
01113 - Cadmium, Total Recoverable - ug/l	26	-	-	-	-	-	-	1/Week	24hr Composite	All
01119 - Copper, Total Recoverable - ug/l	100	-	-	-	-	-	-	1/Week	24hr Composite	All
31616 - Fecal Coliform - #/100 ml	2000	-	-	1000	-	-	-	1/Month	Grab	Summer
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

In addition to the limits listed above, the total discharge from outfalls 2IE00000002 and 2IE00000014 shall also meet the annual loading limits listed below:

Parameter	Maximum Annual Load (kg/year)
Total Suspended Solids	300
Ammonia-nitrogen	900
Cyanide, total	1.23
Fluoride	306
Beryllium	5.68
Chromium	2.30
Copper	9.37

Notes for Station Number 2IE00000014:

Sampling shall be performed when discharging. If NO DISCHARGE OCCURS DURING THE ENTIRE MONTH, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.

See Part II, Item F.

Acute Toxicity: See Part II, Item K. Limits for acute toxicity are effective only if triggered by the conditions of Part II, Item K.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

21. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 2IE00000099. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Tier 1 (15-30 cfs)

Table - Final Outfall - 099 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	13122	-	10540	1/Week	Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	2.68	1/Week	Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	28.4	1/Week	Composite	Winter
00719 - Cyanide, Free - mg/l	-	-	-	-	0.233	-	0.055	1/Week	Composite	All
00998 - Beryllium, Total Recoverable - ug/l	-	-	-	-	4.33	-	0.5	1/Week	Composite	All
01032 - Chromium, Hexavalent (Cr +6) - ug/l	-	-	-	-	0.169	-	0.116	1/Week	Composite	All
01034 - Chromium, Total (Cr) - ug/l	-	-	-	-	40.1	-	0.90	1/Week	Composite	All
01074 - Nickel, Total Recoverable - ug/l	-	-	-	-	10.37	-	0.95	1/Week	Composite	All
01079 - Silver, Total Recoverable - ug/l	-	-	-	-	0.083	-	0.014	1/Week	Composite	All
01113 - Cadmium, Total Recoverable - ug/l	-	-	-	-	0.137	-	0.04	1/Week	Composite	All
01119 - Copper, Total Recoverable - ug/l	-	-	-	-	0.296	-	0.159	1/Week	Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

22. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 2IE00000099. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Tier 2 (30.01-45 cfs)

Table - Final Outfall - 099 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	28616	-	21079	1/Week	24hr Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	32.69	-	5.36	1/Week	24hr Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	212.69	-	56.84	1/Week	24hr Composite	Winter
00719 - Cyanide, Free - mg/l	-	-	-	-	0.47	-	0.11	1/Week	24hr Composite	All
00998 - Beryllium, Total Recoverable - ug/l	-	-	-	-	8.67	-	1.0	1/Week	24hr Composite	All
01032 - Chromium, Hexavalent (Cr +6) - ug/l	-	-	-	-	0.34	-	0.23	1/Week	24hr Composite	All
01034 - Chromium, Total (Cr) - ug/l	-	-	-	-	80	-	1.8	1/Week	24hr Composite	All
01074 - Nickel, Total Recoverable - ug/l	-	-	-	-	21	-	1.9	1/Week	24hr Composite	All
01079 - Silver, Total Recoverable - ug/l	-	-	-	-	0.17	-	0.028	1/Week	24hr Composite	All
01113 - Cadmium, Total Recoverable - ug/l	-	-	-	-	0.27	-	0.08	1/Week	24hr Composite	All
01119 - Copper, Total Recoverable - ug/l	-	-	-	-	0.59	-	0.32	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

24. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 2IE00000099. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Tier 4 (60.01-125 cfs)

Table - Final Outfall - 099 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	57232	-	42159	1/Week	24hr Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	62.69	-	10.7	1/Week	24hr Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	425.69	-	113.68	1/Week	24hr Composite	Winter
00719 - Cyanide, Free - mg/l	-	-	-	-	0.93	-	0.22	1/Week	Composite	All
00998 - Beryllium, Total Recoverable - ug/l	-	-	-	-	17	-	2.0	1/Week	24hr Composite	All
01032 - Chromium, Hexavalent (Cr +6) - ug/l	-	-	-	-	0.68	-	0.47	1/Week	24hr Composite	All
01034 - Chromium, Total (Cr) - ug/l	-	-	-	-	160	-	3.6	1/Week	24hr Composite	All
01074 - Nickel, Total Recoverable - ug/l	-	-	-	-	41	-	3.8	1/Week	24hr Composite	All
01079 - Silver, Total Recoverable - ug/l	-	-	-	-	0.33	-	0.055	1/Week	24hr Composite	All
01113 - Cadmium, Total Recoverable - ug/l	-	-	-	-	0.55	-	0.16	1/Week	24hr Composite	All
01119 - Copper, Total Recoverable - ug/l	-	-	-	-	1.2	-	0.63	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

Part I, B. - UPSTREAM MONITORING REQUIREMENTS

1. Upstream Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number 2IE00000802, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Upstream Monitoring - 802 - Final

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>							<u>Monitoring Requirements</u>		
Parameter	Concentration Specified Units		Loading* kg/day					Measuring	Sampling	Monitoring
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly	Frequency	Type	Months
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

Notes for Station 2IE00000802:

The permittee shall obtain flow readings at least once each day. The daily reported flow shall be the average of all flow measurements taken during the day.

Part II, OTHER REQUIREMENTS

A. Description of the location of the required sampling stations are as follows:

Sampling Station	Description of Location
2IE00000002	Discharge from beryllium metal plant lagoon #5 (Lat: 41 N 29' 22"; Long: 83 W 12' 26")
2IE00000004	South storm sewer (Lat: 41 N 29' 28"; Long: 83 W 12' 46")
2IE00000005	North storm sewer (Lat: 41 N 29' 28"; Long: 83 W 12' 46")
2IE00000006	East alloy storm sewer (Lat: 41 N 29' 33"; Long: 83 W 13' 2")
2IE00000007	East beryllium metal storm sewer (Lat: 41 N 29' 19"; Long: 83 W 12' 46")
2IE00000008	West beryllium metal storm sewer (Lat: 41 N 29' 16"; Long: 83 W 12' 53")
2IE00000009	West alloy storm sewer (Lat: 41 N 29' 30"; Long: 83 W 13' 12")
2IE00000011	Discharge from the holding basins or directly after the industrial wastewater treatment plant (Lat: 41 N 29' 16"; Long: 83 W 12' 48")
2IE00000014	Discharge from the metal plant effluent tank (Lat: 41 N 29' 24"; Long: 83 W 12' 44")
2IE00000015	Stormwater outfall from landfill area
2IE00000099	This is not an actual outfall. This station represents the discharge of stations 2IE00000002, 2IE00000011, and 2IE00000014. This station can represent any one of these stations on any given day, when the average flow at station 2IE00000802 is greater than 15 cfs (9.7 mgd). This is a tiered outfall. Tiers are determined based on river flow at station 2IE00000802.
2IE00000601	Effluent flow from the industrial wastewater treatment plant.
2IE00000602	Internal outfall from sanitary package plant which discharges to the industrial wastewater treatment plant.
2IE00000802	Portage River flow gage at State Route 590, upstream of all outfalls. (Lat: 41 N 29' 24"; Long: 83 W 13' 22")
2IE00000900	Hyde Run immediately prior to entering Portage River (Lat: 41 N 29' 30"; Long: 83 W 12' 46")